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ABOUT FILTRATION

Engineer Hering Chats With Board of Health.

ESTIMATES COST OF THE PROCESS

Reports Received From Various Departments.

Only Usual Routine Work Done. Additions to the Greater Evil.

At the regular weekly meeting of the Board of Health, held yesterday, there were present President Smith, Drs. Wood, Day, Howard and Emerson; Messrs. C. B. Reynolds, C. A. Brown, Keliipio, T. F. Lansing and two visitors. The minutes of the previous meeting were read and approved.

Under the act to mitigate, Dr. Monsarrat's report showed 87 examinations and one Japanese added to the list. Inspector Keliipio's report showed 48,517 fish received at the market during the past week.

Mr. Meyer's report on the condition of affairs at the leper settlement on Molokai, was read.

President Smith announced that he had received another letter from L. A. Thurston bearing on the matter of loss claimed by certain Chinese fishermen for the period during which they were prohibited by the Board of Health from fishing in the waters of the harbor. The claim for compensation was repeated, and \$447.50 was the estimate. President Smith gave it as his opinion that it was a question of law and not one of discrimination of the Board. After a short discussion on the matter it was voted referred to the Government.

At this point in the meeting Mr. F. S. Dodge came in with Mr. Hering, the engineer who arrived here on the last steamer from the Coast.

President Smith introduced Mr. Hering to the members of the Board, and then, after all had taken their places again, spoke to the engineer on the subject of filtration, a matter that just now is claiming much of the Board's attention.

Asked as to his opinion regarding mechanical filtration, Mr. Hering replied that as yet not much was known about mechanical filters. He was therefore somewhat in doubt about recommending them. Experiments were and had been going on in Louisville, Ky., for about a year. Here four or five of the best mechanical filters were undergoing a long series of experiments. Upon the manner in which those experiments turned out would be based the opinion of the engineers.

For a long time these mechanical filters have been used in the large manufacturing of the United States for the last 20 or 30 years for the simple reason that they produce clear water. The matter of the presence of organic matter is not considered at these places.

In regard to the mechanical filters it is not certain that they remove organic matter. No biological experiments have been made.

The conclusions reached by Mr. Weston, after experimenting with a small filter are the best in existence at the present time.

Mr. Hering then gave a short sketch of the workings of the mechanical filter. The water must run through it and to waste for 30 minutes before a gelatinous film forms at the top. Before this is formed only 60 to 70 per cent of the bacteria are kept out. After, 97, 98 and even 99 per cent have been kept out. In some instances, however, where the film has been formed only 77 per cent have been kept out.

Previous experiments have not been conducted on the proper grounds, and that fact led to the experiments at Louisville with the Ohio River water. President Smith: Aside from the mechanical, what systems of filtration are there?

Mr. Hering: There are two methods extensively in use. One is the continuous, and the other the intermittent.

In the continuous method the water has to be put on filtration beds and kept at a certain uniform pressure. This is a very slow process, as distinguished from the mechanical mode, which is known as rapid.

In the mechanical mode a column of 300 feet can be filtered, while in the other process the limit is from 5 to 10 feet.

In the intermediate method a certain charge of water is applied and allowed to seep through. When that has disappeared another charge is put on. More filters are needed in this method on this very account. There is no continuous flow.

The air is drawn into the interstices and a vacuum is created. On the air that is drawn in depends the oxidation of the organisms.

These two, the continuous and the intermittent, are called the natural filters.

Mr. Hering spoke of the Morison "Jewel" filter as having done the best work among the mechanical filters.

Asked as to the material here for natural filtration, Mr. Hering said that he had not been here long enough to look deeply into the matter. He stated that there was no better material than quartz for filtration. Crushed glass would do the work well.

Purification takes place by the water percolating through the pores, which are partly filled with air. This enables the bacteria to do the work of decomposing the organic matter which are turned into nitrates. What is wanted is air, slow percolation on a large surface.

President Smith spoke about the water supply of the future for Honolulu, placing stress on the matter of artesian wells.

Mr. Hering then made some remarks as to cost of filtration. The continuous and intermittent methods would cost from \$7 to \$15 per 1,000,000 gallons, this including the interest on the plant.

The cost of the mechanical or the natural processes would be about the same. Mr. Weston's figure for the mechanical process in Providence, R. I., was \$7.86, including interest on plant, deterioration, etc. Mr. Hering said that he did not like to place the figure lower than \$10.

After a few general remarks, President Smith offered Mr. Hering all the assistance that the Board could offer him in the work which he had come to do in Honolulu.

The Board then continued to the consideration of other matters. The bids for supplies were opened, and the Secretary ordered to arrange and classify the same to be presented at the regular meeting to be held next week. A large number of tenders were received. Dr. Emerson was authorized to publish in pamphlet form his compilation of Board of Health laws.

President Smith announced that in a letter received from Minister Cooper the latter had referred to his having been entertained by Dr. Brough of Boston, who took him aboard the Government boat Vigilant and explained the system of quarantine in force there. At 4:45 p. m. the Board adjourned.

C. STERLING HURT.

Brake Overturned and Occupants Thrown to the Ground.

Shortly after 5 p. m. yesterday there was a smash-up, in which C. Sterling, the painter, came very near losing his life.

He and another man were first noticed going along in front of Central Union Church on Beretania street in an open brake. The horse at that time was traveling along at a pretty rapid rate, nor was the speed slackened a bit on the way out to Mr. Sterling's home on the plains.

When the turn up Pensacola street was made the brake was overturned and badly smashed, while the occupants were thrown violently to the ground. Mr. Sterling was very badly hurt about the head, and it was several minutes before he was brought back to consciousness. He was taken to his home, where the injuries sustained by him will probably keep him in the house for several days.

Fortunately for Mr. Sterling's companion, a slight scratch about the nose was the only injury sustained.

Advertiser, 75 cents per month.

HANGING GARDENS

Exercises at "Little Church Around the Corner."

GROWTH OF CHRISTIAN CHURCH

Sabbath School Children Recite and Sing.

Neat Decorations—Arrival of Santa Claus and Distribution of Gifts.

The auditorium of the Christian Church—"The Little Church Around the Corner"—was full to overflowing last night, the occasion being the Christmas services of the Sabbath School. The room was not gorgeously decorated, but Mrs. George E. Boardman, in whose charge this part of the affair was placed, displayed her usual excellent taste. The space at the rear of the platform was concealed by a drapery, and when this was drawn aside, the hanging garden was exposed. This was not done until after the close of the exercises, then for the space of a half minute the electric lights were turned out, and when Supt. Weedon touched the button again a spontaneous burst of applause went up from little folks and big ones.

Three sides and the ceiling of the space were completely covered with palms and ferns, and in the center there was a pedestal covered with ferns and holding a large basket loaded with presents for the teachers and scholars. From the sides and ceiling were suspended toys, books, drums, cornucopias and boxes of candies, and as there was not room enough there to hold everything, the floor was pretty well crowded with heavier toys.

The exercises opened with a prayer by the Rev. James M. Monroe, followed by a greeting song, in which the entire school took part. Individual and class exercises followed in the order given below:

PROGRAM.
Greeting Song—Entire School
Greeting Recitation—Jennie Cook
Song—The Wheel of the Year—Classes of Mrs. L. E. Atwater and W. M. Templeton.
Recitation—Use of Time, Alice Hopper
Song and Recitation—The Christ in a Manger—Primary Class
Recitation—The Vision—Classes of Mrs. Atwater and Mr. Templeton.
Song—Christmas Carol—Violet Carol Weedon
Recitation—Long Years Ago—Miss Eva Matthews
Song—Ring, Shine and Sing—Mrs. T. Dickson's Class
Recitation—T. McGuire
Song, with Guitar—Christmas Morn—Laura Lillis
Recitation—The Wise Men—Miss Phoebe Harrison's Class
Concert Exercise—The Old, Old Story—Miss Alice Beard's Class
Recitation—Absent Ones—Miss Louise Boardman
Responsive Reading—The Good Shepherd—Chinese Bible Class
Song—Repeat the Story—Chinese Bible Class
Recitation—The Pauper's Christmas Eve—Miss Matthews
Music and Songs.

The closing song was sung by Messrs. Berry, Templeton and Rice, with piano sleigh bell and whip lash accompaniment. It was descriptive in character and told of the visits of Santa Claus to the little ones.

After this the presents were distributed as told above, and the exercises closed with a hymn by the children and a benediction by the pastor.

The scheme of the hanging garden was the idea of Mrs. Walter Weedon, and the children were drilled by her, assisted by the various teachers. Miss

Roe of the infant class had her little charges to the front on every occasion, and they acquitted themselves with credit to her and themselves.

"The Little Church Around the Corner" was established here only a few short years ago by a half-dozen persons in the parlor of W. L. Hopper at his residence on King street.

A British man-of-war was in port when the matter was suggested, and Lieut. Stilleman, one of the officers of it, took active part in organizing. Rev. T. E. Garvin and wife were visiting here at the time, and when the arrangements were completed, and a tent was erected on what is now the Pacific Tennis Club's court, Mr. Garvin preached the first sermon.

From that time until today, except during a very short interval when the services were suspended, the congregation has grown. When the church was built on Alakea street it was dedicated free from debt, the interior decorations having been finished by James Deas and paid for by the pastor not a great while before midnight the night previous to the dedication.

A few months ago Mr. Garvin and his wife were obliged to leave for California, and was succeeded by the present pastor, Mr. Monroe. There has been no diminution in the attendance since this gentleman's arrival; on the contrary, the membership of the church and Sabbath School is constantly growing, and at a rate which indicates a larger church building before many years.

"WELCOME HOME."

Reception to Mr. and Mrs. S. G. Wilder by P. T. C. Boys.

The P. T. C. boys gave a "Welcome Home" to Mr. and Mrs. S. G. Wilder at their courts, Union Square, from 3 to 6 yesterday afternoon. The inclement weather undoubtedly kept away quite a number of people, but notwithstanding this, there was a large attendance. Tennis was not much of a feature on account of the troublesome showers, but the pleasant society of the ladies, who favored the boys with their presence and the music by the band, stationed on the Executive Building grounds, made the afternoon a very happy one.

Besides the guests of honor, there were present Mrs. Wilder, Mrs. Atkinson, Mrs. Herbert, Mrs. Noonan, Mrs. Tenney, Mrs. C. L. Carter, Mrs. Gunn, Misses Kate McGrew, Helen Wilder, May and Zoe Atkinson, Ella Stansbury, Clara Fuller, Pauahi Judd, May Hart, Kate Cornwell, Juanita Hassinger, Nellie Kitchen, Annie Kinney, Rose Roth, Belle Vida, Cora Angus, Lizzie Grace; Judge Hart, Marshal Brown, Dr. Cooper, Messrs. C. J. Falk, Armstrong Smith, R. W. Shingle, officers of the U. S. S. Alert and others.

WAIKIKI DANCE.

Number of Friends Pleasantly Entertained by Mr. C. J. Falk.

The Waikiki home of Mrs. Wilder was the scene of a very enjoyable dance Tuesday evening, given by Mr. C. J. Falk to a number of his friends. The Hawaiian National Quintette Club furnished the music.

Among those present were Dr. and Mrs. George Herbert, Mr. and Mrs. S. G. Wilder, Mr. and Mrs. C. A. Brown, Mrs. George C. Beckley, Mrs. Noonan, Mrs. Tenney, Mrs. Gunn, Mrs. Elizabeth Parker, Misses Helen Wilder, Cordella and Belle Walker, Helen and Eva Parker, Juanita Hassinger, Kate Cornwell, Belle Vida, Messrs. Samuel Parker, David Kawanakoa, Jamie Wilder, G. P. Wilder, J. O. Carter, Jr., W. H. Cornwell, Jr., Charles K. Hyde, Armstrong, Jack Low, Drs. Murray and Grossman and a number of others.

Refreshments were served at a late hour, and at midnight the happy event came to an end.

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